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(54) **Oxy-combustion coal fired boiler and method of transitioning between air and oxygen firing**

(57) A new and unique boiler and method of transition between air and Oxy-combustion in a coal fired combustion process wherein near pure oxygen may be introduced to the boiler furnace in several locations including

directly into the flame through the burner and/or directly into the furnace as nearly pure oxygen, and/or into the recycle flue gas streams to the burners, including both primary and secondary streams.

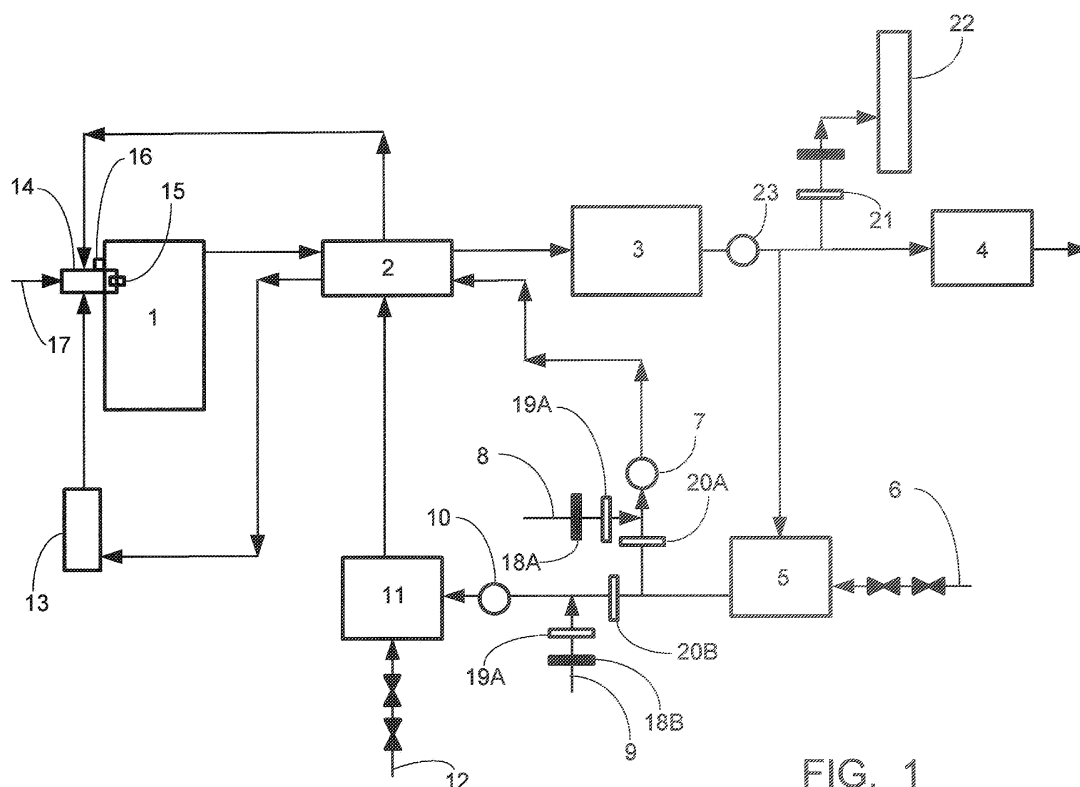


FIG. 1



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 EP 09 15 7876

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